

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

DATE: 09/14/93 TIME: 17:25:18

1 2			SEQUENCE L	ISTING				. —
3 4	(1)	General Information:			Sec	PP.	5	2-4
5 6 7	<b>(</b> i)	) APPLICANTS: Manoharar Phillip D. Coc						
, 8 9 10	(ii)	) TITLE OF INVENTION: AM OLIGONUC	INE-DERIVATI LEOSIDES	ZED NUCLE	OSIDES A	AND		
11 12	(iii)	) NUMBER OF SEQUENCES: 2	3					
13 14 15 16 17	(iv)	CORRESPONDENCE ADDRESS  (A) ADDRESSEE: Woodco and Norris  (B) STREET: One Liber  (C) CITY: Philadelphi  (D) STATE: PA	ck Washburn ty Place - 4					
19 20		(E) COUNTRY: U.S.A. (F) ZIP: 19103						
21 22 23 24 25 26 27	(v)	COMPUTER READABLE FORM (A) MEDIUM TYPE: Flop (B) COMPUTER: IBM PC (C) OPERATING SYSTEM: (D) SOFTWARE: PatentI	py disk compatible PC-DOS/MS-D		on #1.25	i		
28 29 30 31 32	(vi)	CURRENT APPLICATION DA (A) APPLICATION NUMBE (B) FILING DATE: (C) CLASSIFICATION:						
33 34 35 36 37	(viii)	ATTORNEY/AGENT INFORMA (A) NAME: Lucci, Jose (B) REGISTRATION NUMB (C) REFERENCE/DOCKET	ph ER: 33,307	-1169				
38 39 40 41 42	(ix)	TELECOMMUNICATION INFO (A) TELEPHONE: 215-56 (B) TELEFAX: 215-568-	8-3100					
42 43 44	(2) INFO	ORMATION FOR SEQ ID NO:1	:					
45 46 47 48 49		SEQUENCE CHARACTERISTIC  (A) LENGTH: 11 base particles acid  (B) TYPE: nucleic acid  (C) STRANDEDNESS: sing  (D) TOPOLOGY: linear	airs 1 gle					
51	(ii)	MOLECULE TYPE: DNA (gei	nomic)					

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

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52			
53		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
54		CCCTTCT CTTCC	11
55 56		GGCTGACTGC G	TT
56 57			
5 <i>1</i>	(2)	INFORMATION FOR SEQ ID NO:2:	
58 59	(2)	INFORMATION FOR SEQ ID NO.2:	
60		(i) SEQUENCE CHARACTERISTICS:	
61		(A) LENGTH: 20 base pairs	
62		(B) TYPE: nucleic acid	
63		(C) STRANDEDNESS: single	
64		(D) TOPOLOGY: linear	
65	`	(D) TOPOLOGI. IIIIeai	
66		(ii) MOLECULE TYPE: DNA (genomic)	
67		(11) HOBBEODE TIPE: DIA (GCHOMIC)	
68		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
69		(XI) BEQUENCE BESCRIFTION. BEQ IS NO.2.	
70		CTGTCTCCAT CCTCTTCACT	20
71		CIGICICAL COLOTIONS	
72			
73	(2)	INFORMATION FOR SEQ ID NO:3:	
74	(2)	INICIALITION FOR DEG ED NO. 5.	
75		(i) SEQUENCE CHARACTERISTICS:	
76		(A) LENGTH: 20 base pairs	
77		(B) TYPE: nucleic acid	
78		(C) STRANDEDNESS: single	
79		(D) TOPOLOGY: linear	
80		<b>\-</b>	
81		(ii) MOLECULE TYPE: DNA (genomic)	
82		,,	
83		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
84			
85		TTGCTTCCAT CTTCCTCGTC	20
86			
87			
88	(2)	INFORMATION FOR SEQ ID NO:4:	
89			
90		(i) SEQUENCE CHARACTERISTICS:	
91		(A) LENGTH: 18 base pairs	
92		(B) TYPE: nucleic acid	
93		(C) STRANDEDNESS: single	
94		(D) TOPOLOGY: linear	
95			
96		(ii) MOLECULE TYPE: DNA (genomic)	
97		( )	
98		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
99			
100		TGGGAGCCAT AGCGAGGC 18	
101			
102			

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

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103	(2)	INFORMATION FOR SEQ ID NO:5:	
104		//)	
105		(i) SEQUENCE CHARACTERISTICS:	
106		(A) LENGTH: 20 base pairs	
107		(B) TYPE: nucleic acid	
108		(C) STRANDEDNESS: single	
109 110		(D) TOPOLOGY: linear	
111		(ii) MOLECULE TYPE: DNA (genomic)	
112		(II) MODECOLE TIPE: DNA (genomic)	
113		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
114		(XI) DEGUENCE DESCRIPTION. SEQ ID NO.5.	
115		CTGTCTCCAT CCTCTTCACT	20
116		CIGICICAL CCICITACI	20
117			
118	(2)	INFORMATION FOR SEQ ID NO:6:	
119	(2)	11110121111011 1011 010 10101	
120		(i) SEQUENCE CHARACTERISTICS:	
121		(A) LENGTH: 16 base pairs	
122		(B) TYPE: nucleic acid	
123		(C) STRANDEDNESS: single	
124		(D) TOPOLOGY: linear	
125		(5) 101010011 111001	
126		(ii) MOLECULE TYPE: DNA (genomic)	
127		(,,	
128		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
129		(, <u>-</u>	
130		TCCAGGTGTC CGCATC	16
131			
132			
133	(2)	INFORMATION FOR SEQ ID NO:7:	
134			
135		(i) SEQUENCE CHARACTERISTICS:	
136		(A) LENGTH: 17 base pairs	
137		(B) TYPE: nucleic acid	
138		(C) STRANDEDNESS: single	
139		(D) TOPOLOGY: linear	
140			
141		(ii) MOLECULE TYPE: DNA (genomic)	
142			
143		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
144			
145		GGACCGGAAG GTACGAG	17
146			
147			
148	(2)	INFORMATION FOR SEQ ID NO:8:	
149		(i) anarmian amprama	
150		(i) SEQUENCE CHARACTERISTICS:	
151		(A) LENGTH: 17 base pairs	
152		(B) TYPE: nucleic acid	
153		(C) STRANDEDNESS: single	

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154		(D) TOPOLOGY: linear	
155			
156		(ii) MOLECULE TYPE: DNA (genomic)	
157			
158		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
159			
160		CCTGGCCTTC CATGCTC	17
161			
162	4-1		
163	(2)	INFORMATION FOR SEQ ID NO:9:	
164		(:)	
165		(i) SEQUENCE CHARACTERISTICS:	
166		(A) LENGTH: 17 base pairs	
167		(B) TYPE: nucleic acid	
168		(C) STRANDEDNESS: single	
169 170		(D) TOPOLOGY: linear	
170 171		(ii) MOLECULE EXPERIENCE	
171 172		(ii) MOLECULE TYPE: RNA (genomic)	
172 173		() CECHENCE DECORIDETON, CEO ID NO. 0.	
173 174		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
174 175		CCUGGCCUUC CAUGCUC	17
176		CCOGGCCOOC CAOGCOC	Ι,
177			
178	(2)	INFORMATION FOR SEQ ID NO:10:	
179	(2)	INTORNATION TOR BEG ID NO.10.	
180		(i) SEQUENCE CHARACTERISTICS:	
181		(A) LENGTH: 12 base pairs	
182		(B) TYPE: nucleic acid	
183		(C) STRANDEDNESS: single	
184		(D) TOPOLOGY: linear	
185		(-,	
186		(ii) MOLECULE TYPE: DNA (genomic)	
187			
188		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
189			
190		CCCAGGCUCA GA	12
191			
192			
193	(2)	INFORMATION FOR SEQ ID NO:11:	
194			
195		(i) SEQUENCE CHARACTERISTICS:	
196		(A) LENGTH: 12 base pairs	
197		(B) TYPE: nucleic acid	
198		(C) STRANDEDNESS: single	
199		(D) TOPOLOGY: linear	
200		(11) NOT BOTT BOTT BOTT AND A 11	
201		(ii) MOLECULE TYPE: DNA (genomic)	
202		(i) GROVENOR DECORPORATOR OFF TO NO 11	
203 204		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
e : 1 e i			

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

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207 208 (2) INFORMATION FOR SEQ ID NO:12: 209 210 (i) SEQUENCE CHARACTERISTICS: 211 (A) LENGTH: 12 base pairs	
210 (i) SEQUENCE CHARACTERISTICS:	
212 (B) TYPE: nucleic acid 213 (C) STRANDEDNESS: single 214 (D) TOPOLOGY: linear	
215 216 (ii) MOLECULE TYPE: DNA (genomic) 217	
218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: 219	
220 CAUGCUGCAGCC 12 221 222	
223 (2) INFORMATION FOR SEQ ID NO:13: 224	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  230	
231 (ii) MOLECULE TYPE: DNA (genomic) 232	
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: 234	
235 GCCTTTCGCG ACCCAACACU 20 236 237	
238 (2) INFORMATION FOR SEQ ID NO:14: 239	
240 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  242 (B) TYPE: nucleic acid  243 (C) STRANDEDNESS: single  244 (D) TOPOLOGY: linear	<sub>1</sub> 0WN
245 246 (ii) MOLECULE TYPE: DNA (genomic) 247	
248 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
> <b>250</b> GCGTGUCTGCG 10	
252 (2) INFORMATION FOR SEQ ID NO:15: 253	
254 (i) SEQUENCE CHARACTERISTICS: 255 (A) LENGTH: 18 base pairs	

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

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256 257		(B) TYPE: nucleic acid	
258		(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
259		(b) TOPOLOGI: IIIIeal	
260 261		(ii) MOLECULE TYPE: DNA (genomic)	
262 263		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
264		UGGGAGCCAT AGCGAGGC 18	
265	(2)	THEODINATION FOR CHO TO NO 16	
266 267	(2)	INFORMATION FOR SEQ ID NO:16:	
268		(i) SEQUENCE CHARACTERISTICS:	
269		(A) LENGTH: 18 base pairs	
270		(B) TYPE: nucleic acid	
271		(C) STRANDEDNESS: single	
272		(D) TOPOLOGY: linear	
273		(=, ===================================	
274		(ii) MOLECULE TYPE: DNA (genomic)	
275		•	
276		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
277			
278		TGGGAGCCAU AGCGAGGC 18	
279			
280	4-1		
281	(2)	INFORMATION FOR SEQ ID NO:17:	
282		(1)	
283		(i) SEQUENCE CHARACTERISTICS:	
284		(A) LENGTH: 20 base pairs	
285 286		(B) TYPE: nucleic acid	
286 287		<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
287 288		(D) TOPOLOGI: Timear	
289		(ii) MOLECULE TYPE: DNA (genomic)	
290		(11) Holdeold IIII. Divi (generate)	
291		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
292		, , , , , , , , , , , , , , , , , , , ,	
293		UCTGAGTAGC AGAGGAGCTC	20
294			
295			
	(2)	INFORMATION FOR SEQ ID NO:18:	
297			
298		(i) SEQUENCE CHARACTERISTICS:	
299		(A) LENGTH: 21 base pairs	
300		(B) TYPE: nucleic acid	
301		(C) STRANDEDNESS: single	
302		(D) TOPOLOGY: linear	
303 304		(ii) MOLECULE TYPE: DNA (genomic)	
304 305		(II) MODECODE TIPE: DNA (GENOMIC)	
306		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
		,	

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

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	307			
	308		UGCCCAAGCT GGCATCCGTC A	21
	309			
	310			
	311	(2)	INFORMATION FOR SEQ ID NO:19:	
	312	(-,		
	313		(i) SEQUENCE CHARACTERISTICS:	
	314		(A) LENGTH: 22 base pairs	
	315		(B) TYPE: nucleic acid	
	316		(C) STRANDEDNESS: single	
	317		(D) TOPOLOGY: linear	
	318			
	319		(ii) MOLECULE TYPE: DNA (genomic)	
	320			
	321		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19	•
	322			
	323		UGCGTTTGCT CTTCTTCTTG CG	22
	324			
	325			
	326	(2)	INFORMATION FOR SEQ ID NO:20:	
	327		~	
	328		(i) SEQUENCE CHARACTERISTICS:	
	329		(A) IEMOTH, 20 bago pairs	
	330		(B) TYPE: nucleic acid	$\sim 1$
	331		(C) STRANDEDNESS: single	1/1
	332		(D) TOPOLOGY: linear	1
	333		(b) Toronogi. Timear	. /
	334		(ii) MOLECULE TYPE: DNA (genomic)	L 20
			(11) MODECOLE TIPE: DNA (genomic)	
	335		/ 1	
->	336		(xi) SEQUENCE DESCRIPTION: SEQ ID NO 19	
	337			
	338		UGCATCCCCC AGGCCACCAT	20
	339			
	340			
	341	(2)	INFORMATION FOR SEQ ID NO:21:	
	342			
	343		(i) SEQUENCE CHARACTERISTICS:	
	344		(A) LENGTH: 20 base pairs	
	345		(B) TYPE: nucleic acid	
	346		(C) STRANDEDNESS: single	
	347		(D) TOPOLOGY: linear	
	348			
	349		(ii) MOLECULE TYPE: DNA (genomic)	
	350			
	351		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	•
	352			
	353		UCCCGCCTGT GACATGCATT	20
	354			
	355			
	356	(2)	INFORMATION FOR SEQ ID NO:22:	
	357	,		

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/117,363

DATE: 09/14/93 TIME: 17:25:45

358		(i) SEQUENCE CHARACTERISTICS:	
359		(A) LENGTH: 20 base pairs	
360		(B) TYPE: nucleic acid	
361		(C) STRANDEDNESS: single	
362		(D) TOPOLOGY: linear	
363		, ,	
364		(ii) MOLECULE TYPE: DNA (genomic)	
365			
366		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
367			
368		GUTCTCGCTG GTGAGTTTCA	20
369			
370			
371	(2)	INFORMATION FOR SEQ ID NO:23:	
372			
373		(i) SEQUENCE CHARACTERISTICS:	
374		(A) LENGTH: 19 base pairs	
375		(B) TYPE: nucleic acid	
376		(C) STRANDEDNESS: single	
377		(D) TOPOLOGY: linear	
378		, ,	
379		(ii) MOLECULE TYPE: DNA (genomic)	
380		.5	
381		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
382			
383		UUGGGAGCCA TAGCGAGGC	19
384			

### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/117,363

DATE: 09/14/93 TIME: 17:25:46

Line	Error	Original Text
241 250 336	Entered (10) and Calc. Seq. Length (11) differ # of Sequences for line conflicts w/ running total Wrong Sequence Number	(A) LENGTH: 10 base pairs GCGTGUCTGCG 10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

#### SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/08/117,363

DATE: 09/14/93 TIME: 17:25:46

INPUT SET: S388.raw

APPLICATION NUMBER FILING DATE PRIOR APPLICATION DATA

### SEQUENCE CORRECTION REPORT PATENT APPLICATION US/08/117,363

DATE: 09/14/93 TIME: 17:25:51

INPUT SET: S388.raw

Line

Original Text

Corrected Text

5

(i) APPLICANTS: Manoharan, Muthiah

(i) APPLICANT: Manoharan, Muthiah